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Associated Students of the Montana School of Mines

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Happy Easter

AMPLIFIER

CREIGHTON BARRY

Vol. X, No. 9

BUTTE, MONTANA

Tuesday, April 20, 1965

Cobb Scholarship Let

Curt Peterson, a senior in petroleum engineering, and John Gow, a junior in engineering science, recently received Cobb Foundation Scholarships. These scholarships of \$250 each are given to students on the basis of scholarship and need. Mrs. Mary L. Cobb of Great Falls is president, of the Cobb Foundation.



CURTIS L. PETERSON



JOHN L. GOW

CONDOLENCES

The Amplifier staff wishes to express its deepest sympathy to Professor Frank Kelly, whose father died April 1 at the age of 76 in a Veterans Hospital in New York City.

Fees Are Raised

The State Board of Education of the State of Montana has increased the following fees:

Registration Fee—From \$15.00 to \$22.50 per semester.

Incidental Fee—From \$60.00 to \$75.00 per semester.

Non-Resident Fee—From \$135.00 to \$270.00 per semester.

A Montana School of Mines resident student will pay \$265.50 a year, which is \$45.00 more than the \$220.50 he is paying this year. A non-resident student will pay \$828.00, which is \$270.00 more than the \$558.00 he is also paying this year.

These increases in fees will be in effect the Fall Semester of the 1965-1966 college year.

Young Receives Fellowship



MR. F. M. YOUNG

F. M. Young has received the National Science Foundation Scholarship to the Institute of Transportation Engineering from Oklahoma State University at Stillwater, Oklahoma.

Mr. Young will go to Oklahoma University during the summer months of June, July and August and take courses dealing with engineering.

The purpose of the scholarship is twofold. First, it is to broaden the background of the faculty and second, it is to teach the faculty new techniques in the engineering field which they can relay to their students.

Mr. Young graduated from the School of Mines in 1950 with a B.S. in Geology and came back to teach at the Mines in 1959. He is currently teaching Electricity, Fluid Mechanics and Physics. Along with his teaching, Mr. Young is also second vice-president of the Butte Chapter of Engineers. He is presently working towards a Master's Degree in Geology, which he expects to receive this year.

**ATTEND THE
Rocky Mountain College
Concert Choir at
Aldersgate Methodist
Church
Friday, April 23**

THIEVES ROB SUB

Sometime during the night of Tuesday, March 23, a person with or without accomplices, got into the Student Union Building and took \$185 of the snack bar's receipts. It is not known how the SUB or the kitchen were entered without leaving marks. There is some speculation that the thieves were in the building when it was closed for the night.

On Wednesday morning, Vesta Scott, who is the cook during the day, found the kitchen ransacked, and the money bag gone. The aluminum curtain which covers the snack bar opening was found half raised and the light bulb near the kitchen door had been unscrewed.

By Wednesday night all of the amateur detectives of MSM had studied all the available facts, but unfortunately they couldn't solve the mystery either. By Thursday, 80 per cent of the study body had confessed the crime, but for some reason no one could prove anyone's guilt. The other 20 per cent was accused and questioned according to kangaroo court methods, but as a result of a lack of evidence all suspects were freed.

McCASLIN'S TRIP COMPUTERS, MINING and GEOPHYSICS

Professors John McCaslin and William Vine spent the week of March 15 in Tucson, Arizona, participating in a Symposium on Computer Applications in the Mining Industry. It was estimated that perhaps fifty percent of those attending were from colleges and the other fifty percent from industry. The membership included, besides college professors and other engineers, students and other men with computer experience hunting jobs, graduate students working on problems of a theoretical nature and representatives of computer manufacturers.

Rapid advances in the computer field, both in technology and in practical application make attendance at affairs such as these an adventure. Anyone is liable to come up with an exciting discovery that turns a whole body of existing knowledge obsolete. In conversations over coffee, information of practical and theoretical value is exchanged that is put to use by students and engineers as soon as they get back to their own computers.

Sessions were conducted every day of the week. One of these was a specialized course in mathematical techniques used in computer programming. Others were concerned with the specific applications various people in industry have found useful. Most were concerned with ways to improve effective use in the mining industry, including open pit and underground mining of coal and metals, and in prospecting. Also included, though not directly related to computers, was a session on geophysics, as this science is related to mining.

Preceding his arrival in Tucson, Professor McCaslin spent a day in Dallas, Texas, inspecting facilities in Geophysical Services, Incorporated, of which Texas Instruments is a part. This company is one of perhaps two dozens in the United States, and possibly the largest. Its services include the making of well logs in the field for oil companies, and then analyzing them on giant computers specially designed for this work. Other services have to do with analyzing information obtained from use of seismographic and oceanographic instruments. Mr. McCaslin stated that the knowledge of the equipment and procedures and the people he met on this tour will be very useful in helping students to prepare for careers in a field such as this one.

Engineers' Ball

The Engineers' Ball was recently held Saturday, March 27, at the Elks Hall. This formal dance was the highlight of E-Days. The "Ball" was the first in the history of Engineering Days. Those invited were all members of the student body, general and engineering, plus any guests that a student might invite. Price of admission was \$1.50 per couple and the couples danced to the music of Difronzo's Band. Sigma Rho and Theta Tau sponsored this dance. Gooch Robinson, Rudy Wachtler, Leroy Wilkes, Spike Donagan, and Russ Bills made the necessary preparations for this dance.

E-Days Display Results

The results of the E-Days display competition were announced by Carl Koskimaki, Chairman, and Gustov Stolz, Ballot Judge. Winning first place and the \$25 prize was the Mineral Dressing Department. The Petroleum Department captured second place, the \$15 prize, and the Geology Department placed third.

MINERAL DRESSING TAKES FIRST IN E-DAYS

The first place mineral dressing display consisted of explanations of old milling methods, the graduate laboratories, Montana mineral display, industrial exhibits, the cement plant process flow sheet, and a jaw-crusher display.

The metallurgy department demonstrated X-ray machine, the effects of heat-treating metals, method of measuring furnace temperatures, metalographic specimens and the use of the swaging machine.

Among the displays of the chemistry department were a cloud chamber, a vapor phase chromatograph, a bubble cap distillation colorscope, a study of ionic migration, osmotic pressure, liquid chromatography separation of ions and the recovery of copper oxide ore.



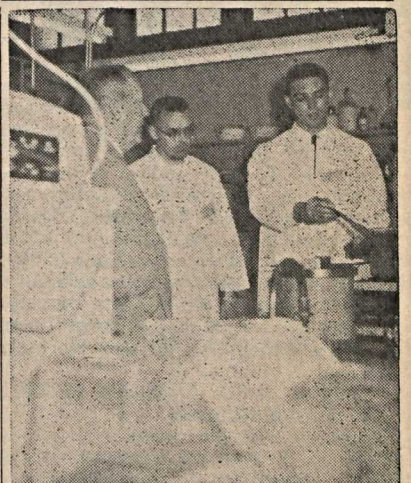
Bob Hill demonstrates.

Geology Department Display

The Geology Department prepared an extensive display. Its theme was entitled "The Role of Geology in Unlocking Montana's Future." Separate parts of the display were devoted to the different divisions of geology, each having a key to the lock. For example, the mining geologists' key was represented by illustrating the role they play in mineral exploration. A rotary drill sunk an 80 foot hole on the campus, east of the engineering building. At this depth rhyolite was expected. Such was not the case. Instead, either quartz magorite or grano diorite was found, although a positive identification has not yet been made. The exploration was done to locate ore from the Orphan Girl Mine Silver vein. Preliminary exploration using a magnetometer had indicated this vein to be in the area of the drill hole, and had there been more drill steels available to deepen the hole, the vein would probably have been hit. The preliminary exploration method using the magnetometer was also a part of the display, as well as the method by which the cuttings of the drill hole are analyzed.

Other divisions of geology were represented by displays of instruments and methods used in geologic mapping: the use of ultraviolet lights to detect fluorescent minerals; the use of geiger-counters to locate uranium deposits; how an electro magnetic separator is used to analyze sediments and the sedimentary rocks; and the usefulness of micro-polishers for preparing specimens for viewing micro-fossils and various mineral structures, and demonstrations of the use of spectroscopes and differential thermal analysis apparatus in determining the composition of unknown minerals. An explanation of how geo-chemists find an ore prospect by chemical means was given, and an oceanographic movie, "The Restless Sea," was shown at intervals during "E" Days, to illustrate the role of geologists in oceanographic work.

All added up to a very interesting display.



Metallurgy Display.

Mining Department Display

The Mining Department's display was an interesting contribution to "E" Days. It consisted of a display of mine models, mine ventilation equipment, and surveying equipment. The surveying equipment was dated from 1890 until 1963, and it showed a good cross-section of the development of this equipment over the years.

Also in the mining display, the story of underground warfare in Butte was told and illustrated with models. In the early days of mining in the Butte area, many disputes arose concerning mineral rights and mining claims. Law-suits often resulted, and to settle the issues each litigant was compelled to have models constructed of what it thought was the geologic structure of the area in dispute. Then a jury could decide which side was right. Very many of the mining laws used throughout the world today were made right here in Butte as a result of these cases.

Parachuters

One of the main attractions of E-Days was parachute jumping by three Montana School of Mines students. The three jumpers, Carl Koskimaki, Dave Bennett and Dan Moilanen, jumped both Saturday and Sunday as scheduled. The jumpers had to jump about ten minutes early Saturday because of weather conditions. The jump was at approximately 8,000 feet with a ten second delay. Sunday weather conditions were better and the students jumped at 14,000 feet with a 40 second free dive in space. The plane that carried the jumpers was paid for and sponsored by the Anderson-Carlisle Society.

MSM Band

Another attraction of E-Days was the MSM band, under the direction of Harold Yde and Rod Lewis; the band played during the jumping on Sunday from the balcony of the SUB. The band was scheduled to play Saturday but was unable to because of the early jump and the prevailing weather conditions.

AWS

Refreshments were served as planned by the Associated Womens Students in the SUB on Saturday and Sunday to all guests. The girls served punch, coffee, cookies and cake. They worked in shifts of three hours each. The refreshments were purchased by the Anderson-Carlisle Society.

STUDENT ELECTIONS

As the time draws near for the "M" Day elections, the method of voting procedure becomes an important consideration. Last year, as in the past, voting was held during the noon hour of "M" day. However, the turn-out was about 50% of the student body, a very poor showing for a small school. One reason for the low number who voted was the short time that voting was held. An hour is not enough time for 500 students to cast their ballots. This year a heavy turn-out at the poll is desired so that the choice of the majority of the students will determine their student body officers. To give the majority time in which to make their decisions for their offices, a longer period of holding the election will be necessary. Perhaps the most accommodating method would be to hold the election for a four hour period, say between 10 A.M. till 2 P.M. on "M" Day. Since an amendment to the constitution will not be needed to extend the voting time, the student council, which has charge over the details of the election, could mandate the longer voting time. Hopefully, the student council will act.

—Tom Downey

Letter To The Editor

Dear Mr. Editor:

A highly successful Engineering Days has passed. The students who took part in this affair are to be congratulated for a splendid job. I would like to express special congratulations to the Mineral Dressing and Petroleum Departments for winning first and second places respectively, in the display competition. The E-Days judges who consisted of Leonard Deloughery, Roger Hofacher, Ed Peiss, Frank Antonoli and Jack Harvey had much praise on the excellence of the displays and expressed the difficulty in choosing between MSM's Departments. Here is a typical letter from a judge, which was written by Jack Harvey.

March 30, 1965

Mr. Carl Koskimaki
Chairman "E" Day
Montana School of Mines
Butte, Montana
Dear Carl:

I was very pleased to act as a judge of the exhibits on "E" Day at the Montana School of Mines. All of the students are to be complimented on an outstanding job. The presentation of each display, the students' appearance, and the knowledge that the student had of his subject were very impressive.

The task of judging a winner was certainly a difficult one. I would like to encourage the students to continue having "E" Days in the future and submit for your consideration the following recommendations.

1. A publicity director be appointed to insure better television, radio, and newspaper coverage.
 2. A definite time limit be placed on each exhibit for the judges.
 3. Judges be provided with a form to rate each exhibit.
- The attached sheet gives my first three choices of the exhibits. Congratulations to you, Carl, on a task very well done.

Sincerely,
J. F. Harvey

As an addition to Jack Harvey's suggestions, I would like to suggest that in the future, the date be set well in advance, so that more time will be had for the planning and preparation of the displays.

I would like to express my appreciation and thanks to Dick Rule and the Sign Committee for the fine job they did on making signs; to Kathy Verona and the Associated Women Students for the excellent refreshments which were served; to the faculty Wives and to the Womens Auxiliary of the AIME for contributing cookies to the refreshments; to the judges, who I am sure had a difficult time making a decision; to all of the committee chairmen for organizing the various committees and displays; and to all persons who helped make "E"-Days a great success.

Carl M. Koskimaki
Chairman, "E" Days

NMC SINGERS

A convocation was held on Tuesday, March 23, by the N.M.C. Ensemble from Northern Montana College under the direction of John Varnum. The selections played by the Ensemble were: "Knightsbridge March," "Bolors Espagnole," "E Pluribus Unum March," and the Overture, "Li'l Abner." Charles Cliekman played a guitar and sang "Joey," then he teamed up with Conn Helkust and they sang "When the Western Sun is Sinkin." The N.M.C. Singers, sang "The Babe," "Des Garcias," "The Water is Wide," "The Pig Tale," "Flower Drum Song," and "You'll Never Walk Alone."

Job Hunting?

Not long from now, if you study hard and burn a little midnight oil, you will be getting your degree. More than likely, there have been recruiters from several industries asking about you, and possibly have held interviews with you. Right now, there is a shortage of developed talent that will become even more acute in the near future.

To get the best deal from industry, what would you be looking for, now? This question deserves some study before you receive your degree. First, of course, you know what general field you want to enter. From here, you should make some observations about the various industries that can use your training. Is it a stable industry? What is its growth potential? Does it offer opportunity and challenge? How does this industry compare with other industries in pay, future prospects, and individual opportunity? How are advancement prospects? Will this industry still be around when you are at your peak in your career?

Surely, a major question in choosing a career is: "How much will it pay?" There are several ways for an industry to answer this: starting salaries, average wages, fringe benefits, and how the passing years affect a man's paycheck.

Armed with these questions, a serious student with a loaded curiosity should have little trouble finding a suitable place for himself in our great technical society.

Below is a table taken from the U. S. News & World Report that was compiled by the College Placement Council. This table covers 111 major universities and colleges around the nation. It shows average offers of **monthly starting pay** to men, by level of college degree:

Chemical			
Engineering	\$639	\$744	\$1,037
Electrical			
Engineering	637	771	1,150
Mechanical			
Engineering	629	753	1,085
Chemistry	593	703	998
Physics	622	755	1,045
Mathematics	591	729	1,128

The report also stated: "The survey shows that candidates for Master's degrees in business administration, industrial management, or commerce who have "technical" undergraduate degrees, are getting offers averaging \$731 a month. Those with "non-technical" undergraduate degrees are getting offers that average \$655 per month. Offers to Bachelor's candidates are averaging \$530 per month for those in general business and \$498 for those who will get Liberal-Arts degrees."

MUSIC MACHINE REPLACES MUSICAL MINERS

Mines students are noted for their singing around the school. Every day you can hear a new voice adding to the old squeaky voices that have been echoing through the tunnels and halls for ages. No more are the singing coed spinisters with their cooky ukes, the spotlight of attention, even though they still can be heard. No more are the beerdrinking guys singing as loudly as their barroom ballads in the poolroom. No longer do the professors and professoresses sing out their daily loves of fellow teachers and students, for fear of being out of tune. Automation has stepped in and replaced the vocal strings of the Mines. A computer is now in the singer's starlight, even though the melody is a repetition of boom-boom-bong. The tune is that new way out beat which is the rage with Professor McCaslin and the guys in Physics.

From The Desk of The Student Body President

by Bob Toivonen



Are you one of those persons who considers MSM the lowest rung on a college social ladder? Are you convinced that MSM's social activities rate zero on a scale of ten? Are you assured that MSM is a graveyard of entertainment? If you have answered yes to these questions, your contribution toward the nadir in MSM's social life is overwhelming. You have confessed your intentions of destroying our campus society.

You complain about the poor attendance at a dance, but you did not attend yourself. You excuse your attendance because "you're broke," but last weekend you spent fifteen dollars scientifically testing the human consumption capacity for intoxicating beverages. You discredit the efforts of a football or basketball team, not to mention the fact your support of them could be considered commendable, either.

Maybe you are one of those persons who as yet has been unable to break the apron strings of a high school society. You remain in your high school adolescent rut. Your adjustment to a radically different college society is extremely slow or even agonizingly stagnant. Instead of attempting adjustment, you are content to wallow in the memories of a lost high school society. Instead of admitting your inability to adjust to college life, you shift the blame of discontent to the college itself. Ask yourself again why you are dissatisfied with MSM, and surely you will feel a twinge of guilt, for it is yourself, not MSM, with which you find dissatisfaction. MSM can only be as enjoyable and enlightening as you choose to make it through active participation.

Have You Heard?

Hey, Jane McCarthy, how come you spent the whole evening of the Engineers' Ball in the cloak-room?

Keeping steady company lately, Raymathina and Jimacina went to the Engineer's Ball. How was it lovers?

The other day a certain couple was being paged; but it seems they were out riding!

Russ Bills was sure happy last week. He got his Easter Bonnet.

Hey, Ken Tholstrom, did you have fun blowing bubbles?

How was the picnic the other day? Lots of ants?

Pretty soon there will be a week-long Bachelor Party. Hope the guys make it to your wedding, Jocko!

Carol Melvin loves a certain joke. It's okay the first few times you hear it, but after ten times.—. Ask her who fired the cannon.

A certain girl has a favorite song, "I'm Forever Blowing Bubbles." How about it Midge?

Hey Leona, you're flashing green just because Ed is looking—Well?

Joe Bates, do you really like cowboy music that much? I have a Roy Rogers' album.

The latest thing with the dorm guys is girl rating. We're heard of T.V. rating, but girl rating??

It has been advertised that the MSM dorm is, in actuality, "Mother Tait's Home for Unwed Fathers."

Say, Creighton Barry, what were you doing stealing ice cream cones from the helpless coeds. Were you that hungry?

Via the grapevine: We understand that Joe Bates and Bill Madison have been inquiring about pinchle lessons. See Jocko and Carl.

Marg, let your mother read this issue. OK.

When the principal of an elementary school began publishing a monthly staff newsletter, he asked for suggestions for a name for the bulletin. The first suggestion was FACULTY—for "Frantic Adults Chasing Unruly Little Tireless Youngsters."

CLUB NEWS

Sigma Rho Fraternity

On March 18, a joint meeting with Theta Tau Fraternity was held to make plans for their co-sponsored Engineering Ball held March 23.

At the regular meeting of March 28, plans were made for a hayride to be held Friday, April 23. The pledges signed their pledge cards at the meeting.

Newman Club

The Montana School of Mines Newman Club, for the past week, prepared for the guest speaker, Chief Federal District Judge of Montana, W. D. Murray.

The honorable Judge Murray's topic was Law and Morality. He also talked on legal procedures.

Judge Murray's talk was held April 6, on the Montana School of Mines Campus. All interested were asked to attend.

Student Council Meeting

On Tuesday, March 23, a Student Council Meeting was held with regard to the annual Prayer Breakfast for Montana Colleges, which is to be held in April at Carroll College. The breakfast will commence at 8 A.M. in the campus cafeteria. The charge for the breakfast is \$2. The meeting is open to anyone who is interested in attending.

It was also suggested by John Evans that the Council try to obtain money from the general fund in order to purchase equipment for loud speakers for the Geophysics seismic truck. It is anticipated that the overall cost for these would be about \$135. This would not only be advantageous to the Geophysics Dept. but would also serve as a good advertising means for the school.

Newman Club

MSM Newmanites attended a short meeting Tuesday, March 16. Believing that the prime purpose of a religious club should be to instruct its members on how to live, they are discussing various aspects of the ten commandments and how they apply to their individual lives. The discussion at this particular meeting was on the Seventh Commandment, "Thou shalt not steal."

Among the items discussed at this meeting was the fact that any form of stealing is an infringement upon the rights of an individual, an offense against justice and the obligation of restitution when something is stolen. It was concluded that no form of stealing can be justified regardless of excuses and rationalizations.

The National Newman Club Convention will be held in New York City from August 30 to September 4. The cost of going to this convention is sixty-four dollars, and several from MSM are considering attending.

The next meeting will feature Federal Judge W. D. Murray, who will speak on civil pustice.

Strictly speaking, according to modern usage, evening is from sunset to dark.

This convocation was also the scene of two movies; one film was on the rocket Saturn propulsion system, and the other movie told of the role of the professional engineer in modern society.

Success consists of getting up just one more time than you fall.

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MCKEE PRINT

Advice To The LOVEWORN

Dear Ann:

You simply must help me! I am desperate, Ann. If you knew me, you would doubtlessly love me; I am very cute, cuddly, pretty, sophisticated, witty, urbane, chic, and altogether wonderful. Daddy calls me his Fairy Princess and Mommy says I will someday be chosen Miss America; they are both probably right.

I am a coed at the School of Mines and everybody adores and simply worships me; they think I am a vision of beauty and, again, they are probably right too. School is fun and gay and simply marvelous! I won the contest for the best "What MSM Means To Me" paper. Isn't that exciting, Ann?

This is my disastrous problem: the fellows have a devilishly delightful game they call "Shooting the Beav," and Ann, I wonder whether I should hit them with my purse, smile, or wear pants when they play this game with me? What do you think?

Capricious Coed

Dear Capricious:

Boys will be boys you silly thing you!

* * *

Dear Ann: (if that's really your lousy name.)

I don't like you, your column, this paper, your face, your advice, your dog, your cat, your weakling husband, your ugly kids, or your big-mouthed phony philosophy. I like Marlon Brando, Paul Newman, James Cagney, Al Capone, horror movies, dirty hands, punching old ladies, whiskey, and good looking broads. So there!

My problem is getting along with people. For some reason they don't seem to like me, although I try my hardest to force them to. The Rats don't know what fun they're missing by not cultivating my friendship. What do you think is the matter, you lousy old hag?

Happy Hal

Dear Happy:

I think you're positively captivating. Meet me on Big Butte at 7:30 tonight!

The Dorm Wonders

How come Rule and Angrove always come back from the ski slope all tired out but with unused equipment?

Why were there only three girls dressed in formals at the formal Engineers' Ball?

Who is 008?

Why is Doug so interested in Math lately—could it have something to do with the Civil War?

Why does E. Nordquist come back from his dates all beat up?

Why does Mollberg find that one girl so attractive? It isn't that good a car, Lonnie.

What was so interesting in Boze-man—Larry, Kent, Steve, Dennis, and Bruce? And the night before a test, too.

What are those marks on Kent's floor, Charlie?

What does Denton get out of Buck Owen's "Tiger by the Tail"?

Have you heard about Larry's new book—burned in Boston.

Why has Dale Loucks been practicing his bowling lately? Those beer frames been getting you down, Dale?



Seminars Held In Met and Pet

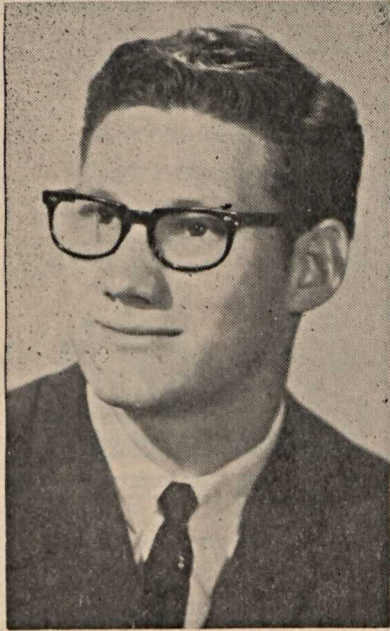
The Metallurgy Department was presented a seminar by A. S. Brar, on March 30. The title of the seminar was The Nondestructive Testing of Metals. Nondestructive examination of a material is similar to medical examination of the human body. Both have as their objective the assessment of the probability of survival under known conditions and the detection of disorders that may lead to premature decrease or failure. Fortunately, the medical doctor is not allowed to apply destructive tests to the living body and is therefore never tempted to assess the fitness of one man by dissecting another. The metallurgist, however, is often forced to adopt a comparable procedure and to rely on strict control of manufacturing processes to maintain a uniform product. These tests indicate the nature and the location of abnormalities. A question and answer period followed the seminar.



A. S. BRAR

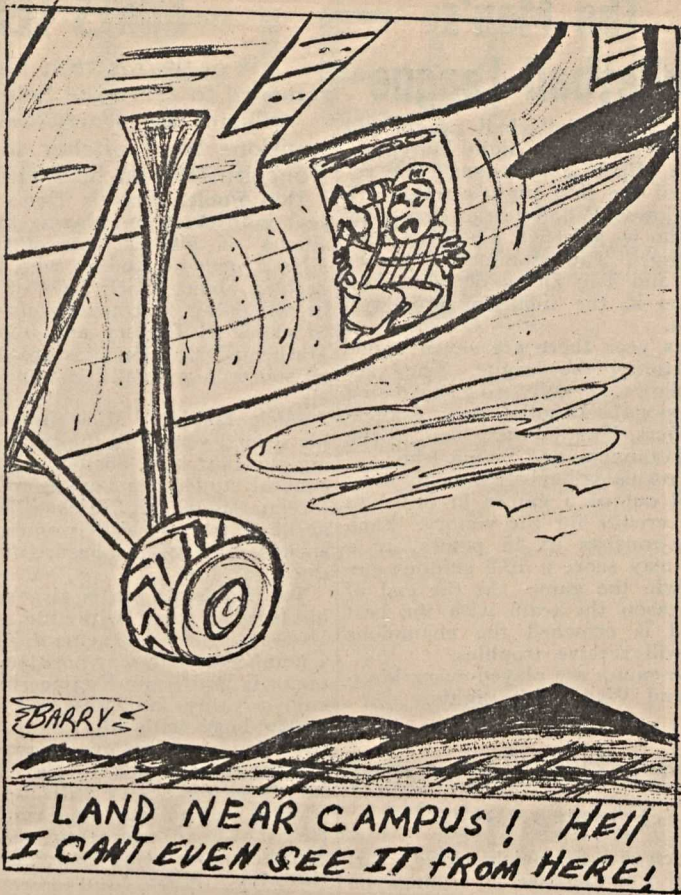
Rod Ylitalo Presents Seminar

On March 30, a seminar was presented at 10:00 a.m. to the Petroleum Department on the "Automation of Crude Oil Production." Rod Ylitalo presented the seminar. The seminar explained the points of crude oil automation in the field, from the well to the pipe line and through to the central office.



RODNEY W. YLITALO

The two phases, field and office, were then discussed in respect to the remote control system and its interrelationship. Several subjects in both phases were discussed in regard to operation and principle. Also pointed out in the discussion were the advantages of setting up a remote control system by large petroleum companies. Though the initial cost was pointed out to be quite high, the availability of equipment and the progress in computer systems have brought the automation into an increasingly progressive light.



MINE RESCUE

All of the graduating seniors recently received a week of instruction in First Aid and Mine Rescue at the Original Mine from Don E. Martin, Bureau of Mines, U. S. Department of the Interior. The class was divided into two sections, the first section, taking the course from March 8-12 and the second section March 15-18.

The course dealt with the assembly and care of rescue apparatus, type of gases and dangerous concentrations, methods of protecting lives underground and the practical use of the McCaa respirator. On Friday of each week everyone had to walk from the Original Mine to the Travona and back wearing respirators. While at the Travona they spent a half an hour in a room with a formaldehyde candle.

Those taking the course in the first section were Manfred Dexling, Lawrence Eaton, James Ek, Victor Galarreta, Samuel Higinbotham, James Jenks, Carl Koskimaki, William Marx, Ariel Orellana, Donald Podobnik, Manley Stallings, Robert Toivonen, Rudy Wachtler, and Raif Zacca; second section, Manoor Awan, Paul Blair, John Burk, John Evans, Donald Hruska, Joseph Kandle, William, Madison, James Mazza, Marvin Mitchell, Francisco Pachas, Curt Peterson, Edward Simonich, Keith Tyner, James Vinnette, Jack Weaver, Theodore Yde, and Rodney Ylitalo.

GROUND-WATER REPORT ISSUED BY MBMG

The Montana Bureau of Mines and Geology has published as Memoir 40 a report entitled "Ground-Water Resources Along Cedar Creek Anticline in Eastern Montana." The report was prepared by O. James Taylor, U. S. Geological Survey, Water-Resources Division, under a cooperative agreement between the two agencies for investigation of ground-water conditions in Montana.

The Cedar Creek anticline extends from the vicinity of Glendive southeastward through Baker and into North Dakota. The report discusses especially the area lying southwest of the crest of the anticline and extending to the southwest corner of Fallon County.

Copies of Memoir 40, Ground-Water Resources Along Cedar Creek Anticline in Eastern Montana, can be obtained for \$1.00 at the Montana Bureau of Mines and Geology office.

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A YOUNG WOMAN'S IMPRESSIONS OF NAZI GERMANY

The German Club met on Thursday, March 25, in Room 109 of the Student Union Building, in order to hear Mrs. Nita Holmstrom deliver a talk on some of her past experiences as a German citizen under the Third Reich.

Born and raised in Bremen, Germany, Mrs. Holmstrom experienced the rise of the Nazi Party, the Second World War, the East-West struggle over Germany after 1945, and the rehabilitation of the German people.

At the roundtable discussion, Mrs. Holmstrom answered questions concerning the splitting of German political parties, which resulted in Hitler's Nazi Party to gain control. Also, she emphasized the fact that the German people were not aware of the rise of Nazism and its resultant destruction of the freedoms enjoyed by the German people under the Weimar Republic.

Mrs. Holmstrom feels that the German people, to some degree, still harbor resentment toward the Americans and the British as a result of the terrible bombings of German cities by both the United States and the Royal Air Force.

Mrs. Holmstrom's mother also attended the German Club Meeting, and answered questions related to the topic. It might be mentioned that both Mrs. Holmstrom and her mother have been residing in the mining city for the past 10 years.

The German Club would like to announce that its next regular meeting will be held today. The Club's second speaker will be Mrs. Fathi Habashi, wife of Professor Habashi. Mrs. Habashi, a native of Austria, will speak on "The Cultural and Political Life of Austria: Past and Present." Mrs. Habashi will also present a film entitled *Glückliches Österreich* (Happy Austria). The film and talk will be delivered in Room 109 in the SUB at 8:00 p.m. There will be no German dialogue in the film; instead, German folk songs will comprise the background of the movie; these songs, sung by various Austrian choral groups, will serve as a musical background, which will illustrate the panorama of age-old and modern-day Austria.

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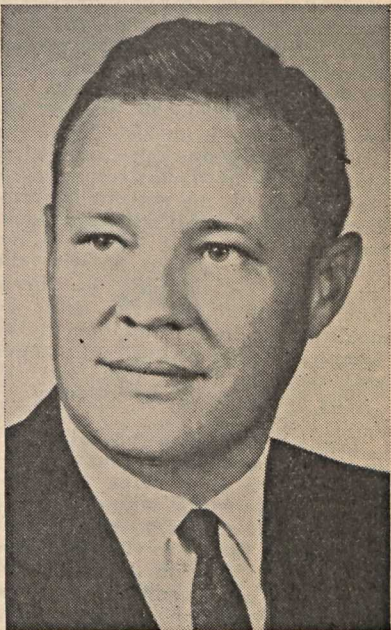
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Fletcher To Speak

Dr. Stewart G. Fletcher, Vice President of the American Society for Metals will speak April 21 at Montana School of Mines. The convocation at 8:00 P.M. in Room 115 of the Metallurgy Building.



DR. STEWART G. FLETCHER

A graduate of Carnegie Institute of Technology Dr. Fletcher worked at Massachusetts Institute of Technology on a teaching fellowship leading to a Doctor of Science degree in Metallurgy, with his major research being on the tempering of tool steel. Becoming associated with Latrobe Steel Company in 1946, he was appointed Chief Metallurgist and is presently vice president-technical director. Through this he has gained wide experience in the field of tool and die steels and specialty steels and alloys.

Dr. Fletcher has been very active in American Society for Metals activities in the Pittsburgh Chapter, and has served on many committees and as Chapter Chairman. After he will give his speech to the M.S.M. students on vacuum melting, he will present the Montana School of Mines Chapter with its official charter.

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UUUUMPH

Recently one of the lower class students from our fair school received a letter from the famous "Believe it or Don't" Rob Bipley. It seems as though this student met Mr. Bipley somewhere in his travels and mentioned our fine museum. The "Believe it or Don't" man showed a great deal of interest and promised that he would visit Montana School of Mines at his earliest convenience to have a look at some of the more interesting displays.

The aforementioned student received a letter from Mr. Bipley the other day, and was quite puzzled at the contents of the correspondence. As was noted, the student in question is not very bright and could not quite figure out just what Mr. Bipley's reply had to do with the displays in the museum; he, therefore, requested that the letter be published in hopes that one of the brighter, uppercrust men on campus may decipher it for him.

The letter reads as follows:

Dear Doc:

I was on my way through Montana last week and because of engine trouble, my plane was detained in Butte for a few hours. I felt that this would be an excellent opportunity for me to visit the Montana Mines Museum. I rented an automobile and found my way up the hill to your school. Apparently I picked a bad hour for my visit because the friendly students of which you spoke were nowhere to be found. I did attempt to speak to a few fellows but these boys simply clasped hold of the slide rule on their belts and walked by mumbling formulas. It was quite apparent that they were engrossed in thought much too deep for the average mind to comprehend. Well, sir, in view of the circumstances, I decided to go it alone and it was not long before I found what I was seeking. At this point, I must confess that my hearing must be failing, because I was sure you told me the Museum was dedicated to mineral display and not antiques. None-the-less, being interested in ancient structures, I proceeded toward the nearby red brick building and attempted to open the massive door. I must say that the students for whom this door was made must have been brawny fellows because with all my strength I could not budge that ancient door. A few of the slide rule chaps, also attempting to enter the "museum" tugged along with me and finally gave up and went away mumbling something about a tunnel. Finally a little lady approached and with mathematical skill applied leverage in just the right place; and the great old door creaked open just enough for myself and the lady, whom I later heard called Miss Satter, to slip through.

The first thing I noted, as I entered, was the offices of some history professors, and I might add that they could not have been in a more appropriate building. Most of the other doors were closed, I suppose, to keep them from falling from their old hinges, and I did not wish to take the chance of opening them for fear of destroying property. I proceeded up a massive granite stairway and was amused to see that at sometime in the past years, geology was studied here. I was delighted at the old geology offices with the manikins of the professors sitting at the desks, but could not understand why such life-like figures would have their eyes closed. Now and then a student would pass with his nose in a book, and I could not figure out why he should come to such an interesting reproduction of ancient architecture to study.

I was sorry that time would not permit me to finish my tour of the building, but then, I was also a little leary of going any higher in such a delapidated structure. Also, at about ten minutes to the hour, the museum suddenly filled up with young visitors and I did not feel safe in such an old building with all that weight on the old floors. Honestly, when some of the huskier-built female visitors bumped into the walls, the many cracks in the ceiling would expand and the strange old light fixtures would sway back and forth. Upon reaching the front door, I was happy to find that eight or ten people ahead of me had managed to force it open, so I got out quite easily.

After I got outside, I noticed a date on the front of the Museum. My only question, is this: "Is 1896 the date the building was erected, or is that the year in which it was restored?"

I wish to thank you for calling my attention to the Montana School of Mines Museum and the fact that it may have some "Believe it or Don't" material on it. Well, the fact that the one old structure is still standing is unbelievable and that huge front door will surely make the first page of my next book.

Sincerely yours,
Rob Bipley

The Old Timer

"If you remember how you acquired your tools you'll never lend them out."

The Men's Volleyball League

The Men's Volleyball League got underway Monday night March 29, in the Mines' gymnasium. The results of the first night's action are as follows: Whollyterras over Sigma Rho by a forfeit; Chodda Chopper edged Tau Hammer, 2 games to 1; and Tau Dorm defeated Tau Heroes in the finale of Monday's games.

This year there are seven teams constituting the league. They are as follows: Faculty (defending champions), Whollyterras, Chodda Choppers, Tau Heroes, Tau Dorm, Tau Hammers, and Sigma Rho.

In men's volleyball a team must win 2 out of 3 games in order to get 5 credits for the victory. Each game consists of 15 points, or a team may score a 10-0 shutout and also win the game. At the end of the season the team with the best record is crowned the champions and will receive trophies.

The games are played every Monday and Wednesday nights.

Simonich Attended Conference

Coach Ed Simonich recently attended a conference in Billings on March 19. The spring sport schedule for baseball and track was discussed, and the All-Star team was selected. Jim Leifer, a Mines freshman, received honorable mention.

Ed also traveled to Dotson, Harlem, Hoglina, Whitewater, Rudyard, Joplin and Box Elder High Schools in Montana to deliver mineral display cases on April 5.

Coach Simonich is planning to travel on April 19 to Roberts, Red Lodge, Belfry, Edgar, Miles City and Laurel to participate in College Days. He will speak to the respective high schools about the opportunities for college entrance in their vicinities.

Tapakegabrew Undefeated In Intramural Basketball

Tapakegabrew clinched the intramural basketball championship by defeating the Hoochers with a score of 59-57. Tapakegabrew finished the season with a 16-0 record. GFO's finished in second place with 14 wins and 2 losses. Tied with the GFO are the Hoochers.

Now that basketball season is over, volleyball is under way. The first series of games were well underway by the end of March.

The Old Timer

"Now that man has learned to move faster than sound, women are at a distinct disadvantage."

One party guest to another: "The only thing holding her dress up is a city ordinance."

MINES LETTERMEN RETURN

Six of the fourteen 1963-64 Orediggers baseball squad have returned to serve the School of Mines in the coming season. Their experience ranges from one to three years—their positions from pitcher to outfielder—their likes and dislikes from athletics to beer and women.

Don Poole. This is Don's third year with the team, playing the positions of pitcher and outfielder. He's a general student who is undecided about which field of work he will enter, but tentatively plans to major in History and minor in Mathematics. Don's interests are all sports in general, Rena and Novels.

Mick Hanley. Mick is starting his second year with the team, holding the first base position. He is a general student, and plans to teach foreign languages. Mick will have nothing to do with women, and spends most of his leisure time in the local Pub.

Joe Konicki. Joe is also serving his second year with the squad. He's an infielder in general, playing a number of different positions. His major is Petroleum Engineering. He enjoys other athletics and stays pretty busy with his family—wife, two boys, and one on the way.

Mike Marinovich. This is also Mike's second season with the team, playing second base and rightfield. He is also an engineering student with his major being Petroleum Engineering. Mike enjoys the great outdoors and can also be found in local taverns.

Wally Busenius. Wally, who is from Baltimore, Maryland, is the four-year man on the team. He is an engineering student who is also studying Petroleum Engineering. He is a pitcher and outfielder on the team and is interested in other athletic activities.

Joe Sullivan. Joe is the sixth returning member; he is also an infielder and beginning his second year. Neither Joe nor Margaret Berryman were available for the interview and picture.

Coach Simonich urges that all teams and members check the bulletin board in the gym to find out when the games start and to find out when their team plays. Each team is allowed only one forfeit; if a team forfeits twice it is automatically disqualified.

Baseball Lettermen: W. Busenius, J. Konicki, M. Hanley, M. Marinovich, D. Poole.

POOL FIXED?

A vain attempt was made recently to repair the leaks in the pool at MSM. The workmen worked several long shifts, only to find that when the pool was filled up again it still leaked! Even though it still leaks, it is ready for use and enjoyment.

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